PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference COCH0153PCT	FOR FURTHER ACTION ***	see Form PCT/ISA/220 well as, where applicable, item 5 below	v
International application No. PCT/US05/21207	International filing date (day/mont 15 June 2005 (15.06.2005)	th/year) (Earliest) Priority I 15 June 2004 (15.0	Dale (day/month/year) 6,2004)
Applicant COCHLEAR AMERICAS			
Besis of the Report With rogard to the language, the With rogard to the language, the He international a translation of the b. With rogard to any under Certain claims were found Unity of Invention is lacking. With rogard to the title.	If a total of sheets. by a copy of each prior and docume intermediate was carried out application in the language in which is intermediate pipilication into mainted of the purpose of intermediate in the major was the major wa	ent cited in this report. on the basis of: if was filed. , w const search (Rules 12.3(a) and i	hich is the language 23.1(b))
 With regard to the abstract, the text is approved as submit 	ted by the applicant		
the text has been established,	ned by the applicant. according to Rule 38.2(b), by this A he date of mailing of this internation	Authority as it appears in Box N nal search report, submit comme	o. IV. The applicant ents to this Authority.
as suggested by the ap	thority, because the applicant failed	to suggest a figure.	
b none of the figures is to be put	ousned with the abstract.		

Form PCT/ISA/210 (first sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/21207

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	Relevant to claim No.
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Form PCT/ISA/210 (second sheet) (April 2005)

PATENT COOPERATION TREATY

From the	. TILLIT COOLE	MIION IN	EATT	
INTERNATIONAL SEARCHING AUTH To: MICHAEL VERGA JAGTIANI + GUTTAG 10363 - A DEMOCRACY LANE FAIRFAX, VA 22030	JRII Y		PCT RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY	
			(PCT Rule 43bis.1)	
		Date of mailing (day/month/year)	08 FEB 2006	7
Applicant's or agent's file reference		FOR FURTHER	ACTION	1
COCH0153PCT			See paragraph 2 below	
International application No.	International filing date (day/month/year)	Priority date (day/month/year)	7
PCT/US05/21207 International Patent Classification (IPC) or	15 June 2005 (15.06.200)	5)	15 June 2004 (15.06,2004)	
	both national classification	on and IPC		7
IPC(7): A61N 1/18 and US CL: 607/57 Applicant				_
COCHLEAR AMERICAS				
COCHLEAR AMIRICAS				٦
1. This opinion contains indications relat	ing to the following items:			٦
Box No. 1 Basis of the c	pinion			
Box No. II Priority				
	ment of aninim with			
		rd to noveity, inver	ntive step and industrial applicability	
N				
Box No. V Reasoned state applicability,	ement under Rule 43 <i>bis.</i> Is citations and explanations	(a)(i) with regard to supporting such sta	novelty, inventive step or industrial	
Box No. VI Certain docum				1
Box No. VII Certain defect	s in the international appli	cation		
	rations on the internationa			
2. FURTHER ACTION				
If a demand for international prelimin International Preliminary Examining	Authority ("IPEA") exce	pt that this does a	be considered to be a written opinion of the not apply where the applicant chooses an international Bureau under Rule 66. Ibis(b) ad.	
of Form PCT/ISA/220 or before the exp	iration of 22 months from		iA, the applicant is invited to submit to the iration of 3 months from the date of mailing hichever expires later.	
For further options, see Form PCT/ISA/	220.			
3. For further details, see notes to Form PC			A 00	
Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US	Date of completion	of this opinion	utherized officer	
Commissioner for Patents P.O. Box 1450	12 December 2005	(12.12.2005)	Jeffrey R. Jastrzab	
Alexandria, Virginia 22313-1450		_// -	Colombiano No. (671) 070 0000	
acsimile No. (571) 273-3201 rm PCT/ISA/237 (cover sheet) (April 2005)		- / '	elephone No. (571) 272-2000	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

İ	International application No.
	PCT/US05/21207
_	

Box No. I Basis of this opinion	
1. With regard to the language, this opinion has been established on the basis of: the international application in the language in which it was filled a translation of the international application into international search (Rolles 12 3(a) and 23.1(b)).	_
With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claims invention, this opinion has been established on the basis of:	d
a. type of material a sequence listing	
table(s) related to the sequence listing	
b. formul of nuterial on paper in electronic furm	
c. time of filing/furnishing contained in the international application as filed. filed together with the international application in electronic form. firmished subsequently to this Authority for the purposes of search.	
3. In addition, in the case that more than one version or copy of a osquonce listing and/or table(a) relating thoreto has been filted or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filled or does not go beyond the application as filled as preportate, were furnished.	
4. Additional comments:	
•	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/21207

Box No. V. Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial

1. Sta	itement		
	Novelty (N)	Claims 1-7 and 11-15	YES
		Claims 8-10	NO
	Inventive step (IS)	Claims NONE	YES
		Claims 1-15	NO
	Industrial applicability (IA)	Claims 1-15	YES
		Claims NONE	NO

2. Citations and explanations:

Claims 8-10 lack novelty under PCT Article 33(2) as being anticipated by Nygard et al. The detection of maximum gradient of the EAP and minimum artifact amounts to detection of plural features.

Claims 1-7 and 11-15 lack an inventive step under PCT Article 33(3) as being obvious over Carter et al. in view of Nygard et al. Carter discloses the invention substantially as claimed including incremental stimulation to determine the NRT threshold, however plural features are not detected in the response signal. Nygard of all teach that the some dEAP includes a stimulus artifact and thus seeks to find the maximum EAP along with the minimum artifact (plural features). It would have been obvious to have incorporated the Nygard et al. teachings into the Carter device in order to optimize signal detection by removing noise generated by the stirmulation signal.

Claims 1-15 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/ISA/237 (Box No. V) (April 2005)

NOTES TO FORM PCT/ISA/220

Tence Notes are intended to give the basic instructions concerning the filing of intendential under Article 19. The Notes are basic on the requirements of the Patent Cooperation Tenary, the Regulations and the Administrative Instructions under that Tenary. In case of discrepancy between these Notes and those requirements, the latter are anolicable. For more detailed information, see also the PCT appetions. Studies, application of WIPO.

In these Noies, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has after having recoved the international search report, one opportunity to amend the claims of the unternational patience in I should however be emphasized that, since all grants of the international application (claims, description and drawings) may be amended during the international periliminary examination procedure, there is usually no need to file, international procedure, there is substituted to the proposes of provisional protections or has another reason for amending the claims before international publication furthermore, at following the major substitute of the provisional protection is a scaling in some States of the provisional protection is a scaling in some States of the provisional protection is a scaling in some States of the provisional protection is a scaling in some States of the state of the provisional protection is a scaling in some States of the state of the provisional protection is a scaling in some States of the
What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amenced (or further amended) under Article 34 before the International Performancy Extaining Authority. The description and drawings may only be amended under Article 34 before the International Perliminary Examinary advisority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When 2 Witin 2 months from the date of transmitted of the internativeal search report or 16 months from the priority date, whethever time limit express later. It should be noted, overwer, that the amendment will be considered as having been received on time of they are received by the international Bureas after the capitation of the applicable, time limit but before the completion of the technical preparations for an international problemation.

Where not to tile the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authorit (Rule 46.2)

Where a demand for international preliminary examination has been/is filed, see below.

tlaw 1 dither by cancelling one or more entire claims 6. Oding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or intendments, differs from the sheet originally filed

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is carticiled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be conumbered consecutively (Administrative Instructions, Section 2050b).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or Franch, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.